PEABODY WATER WELL NAVAJO NO. 6 CO. NW/NE Sec 26-36N-18E, Navajo Co. 179

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Well	DAT COMPANY II		 NTA TO NY			
Name PEABODY Co				¥***.		
Location NW/NE	Sec 26	Twp 36N	-Range	18E Footage	est. 35	o ful 1950 fel
Elev 6686 Er	6674 GR	Spud Date		Completed /	1968	Total Depth 3573
Contractor					Santa e e e e e e e e e e e e e e e e e e e	and the second of the second o
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Bond Am't \$	· — · · — · · — ·	Cancelled		Date Organiz		•
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NAVAJO No. 6 WELL LITHOLOGIC SAMPLE LOG

<u>D</u>	epth Interval	Lithologic Description
	48 - 190 (?)	Sandstone, very fine grained and black car- bonacerous shale.
,	190 - 240	Same as above, dark gray shale contains:
•	•	pyrite.
	240 - 250	Black shale and coal.
	250 - 260	Sandstone, very fine grain, tight.
	260 - 270	Same as above with 30% (coal.
	270 - 290	.Sandstone as above with pyrite.
•	290 - 300	Sandstone, light, fine to medium grain and
		black shale.
•	300 - 320	Sandstone, shale and coal.
•	320 - 420	Sandstone, light, medium to coarse grain.
rde	420 - 430	Sandstone as above with black shale.
•	430 - 450	/Coal dirty.
>		Sandstone, light, fine to medium grain and
•	450 - 480	black shale.
X S	400 - 530	m terms white more fine grained.
Σ	480 - 520	candetone as above with 20% (COAL)
	520 5 30	Sandstone, white very fine grained and dark
)	530 - 540	gray siltstone.
		Sandstone, white, very fine grained.
	540 - 550	Sandstolie, mutte, tetl rang language
	. \$50 - \$60	Shale, dark gray. Sandstone, white, medium to coarse grained.
•	560 - 570	Sandstone, white fine grained.
	570 <u>- 590</u> 615	Sandstone white, fine grained.
	590 640	Sandstone, white very fine grained. Sandstone as above with black shale.
	640 670	Sandstone as above with calcite (?).
8	670 - 740	Shale, black, 90% with calcite (?).
U	740 - 1100	Shale, black with red chert and calcite.
a U	1100 - 1190	Shale, black.
Σ	1190 1220	Shale, black with 10% white fine grained sand-
		stone.
٠	1220 - 1240	Shale, black with 20-30% white fine grained sandstone and pyrite.
	1240 - 1260	condetone as above (60%) with black snate.
•	1260 - 1280	Sandstone, white, medium to coarse grained
4		/Chaiith black chair.
ő	1280 - 1290	Sandstone, white, fine to medium grained with
akoti		nurite and black shale.
ã	1290 - 1300	Sandstone as above with chert fragments and
		pyrite.
. •	1300 - 1330	Managa Carro
	1330 - 1340	Sandstone, white, very fine grained with coarse
	1330 - 1344	chert fragments and green shale.
2	· · · · :	

Navajo No. 6 Well (continued)

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Lithologic Description
Depth Interval
                    Sandstone with abundant chert, trace of shale.
 1340 - 1350
                     Shale, reddish brown and green.
 1350 - 1370
                     Same as above with pyrite.
 \begin{array}{c} 1370 - 1390 \\ 1390 & 1440 \end{array}
                     Sandstone, white, fine to medium grain, soft.
                     Siltstone, reddish brown.
 1440 - 1450
                     Sandstone, white fine to medium grained, soft.
 1450 - 1460
                     Shale, reddish brown.
 1460 - 1490
                     Sandstone, reddish brown, very fine grained.
 1490 - 1520
                     Shale, reddish brown.
 1520 - 1550
                     Sandstone, medium to coarse grained.
 1550 - 1560
                     Sandstone as above with chert fragments.
 1560 - 1580
                     Shale, reddish brown.
 1580 - 1650
                     Sandstone, medium to coarse grained with chert
 1650 - 1680
                        fragments.
                     Shale, red.
 1680 - 1710
                     Mancos tave.
 1710 - 1740
                     Sandstone, white, fine grained.
 1740 - 1770
                     Cave.
 1770 - 1780
                     Sandstone as above with cave.
 1780 - 1790
                     Sandstone as above.
  1790 - 1810
                     Sandstone as above with cave.
  1810 - 1820
                      Sandstone as above.
  1820 - 1880
                      Shale, reddish brown.
  1880 - 1920
                      Sandstone, very fine grained, soft.
  1920 - 2000 2060
                      Sandstone, reddish brown, very fine grained.
  2000 + 2160
  2160 - 2200
                      Cement.
                      Cement and reddish brown, very fine grained
  2200 - 2220
                         sandstone.
                      Sandstone as above.
  2770 - 2260
                      Cement and sandstone as above.
  2260 - 2270
                      Shale, chocolate brown.
  2270 - 2280
  2280 - 2290 2395
                      Shale as above and cement.
                      Shale, reddish brown.
  2290 2430
                      Sandstone, very fine grained (5%)?
  2430 - 2450
                      Sandstone (10%)
  2450 - 2480
                      Sandstone, reddish brown very fine grained, 50%.
  2480 - 2500
                      Sandstone, reddish brown to white, very fine
  2500 - 2700
                          grained.
                      Cement and cave.
  2700 - 2800
                      Sandstone, pink with 10% cement.
  2800 - 2810
                       Sandstone, pink.
  2810 - 2910
                      No description.
 +2910 - 3010
                       Shale, brown, cave..
  3010 - 3040
                       Sandstone, white-pink, very fine grained.
   3040 - 3070 3085
   3070 + 3090
                       Cave ??
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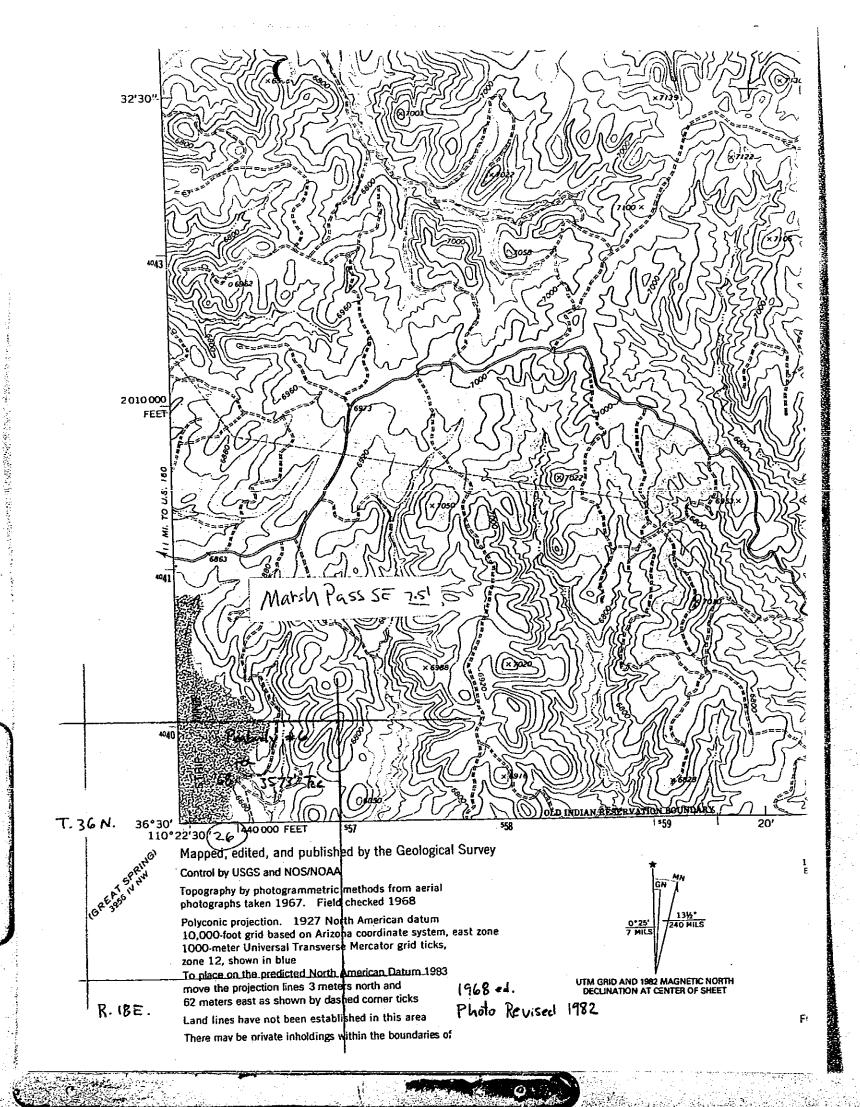
Navajo No. 6 Well (continued)

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	Depth Interval	Lithologic Description
Kayenta	3090 - 3100	Shale, chocolate brown and mottled green, 50% shale as above (5%) with sandstone.
	3110 - 3120	Shale, 50%.
	3120 - 3130	Shale, 10%.
	3130 - 3160	Shale, 20%.
	3160 - 3170	No description.
	3170 - 3180	Shale, 50%.
	3190 - 3240 3245	Shale, reddish brown, 10% cement.
	3240 3300	Shale - claystone, bentonitic.
	3300 - 3320	Sandstone, white, very fine grained, 5%.
	3320 - 3410	Sandstone, white-pink, very fine grained, 50%.
ingate	3410 - 3420	Sandstone, reddish brown-pink, fine medium grained.
	3420 - 3440	Shale, chocolate brown, cave?
	3440 - 3470	Sandstone, 90%.
. 3	3470 <u>- 3510</u> 3520	Sandstone, medium-fine grained.
· .	3510 - 3530	Shale, chocolate brown 10% cave?
	3530 - 3550 ·	Shale, chocolate to reddish brown, 60%.
i	3550 - 3560	Shale, 80%.
- -		

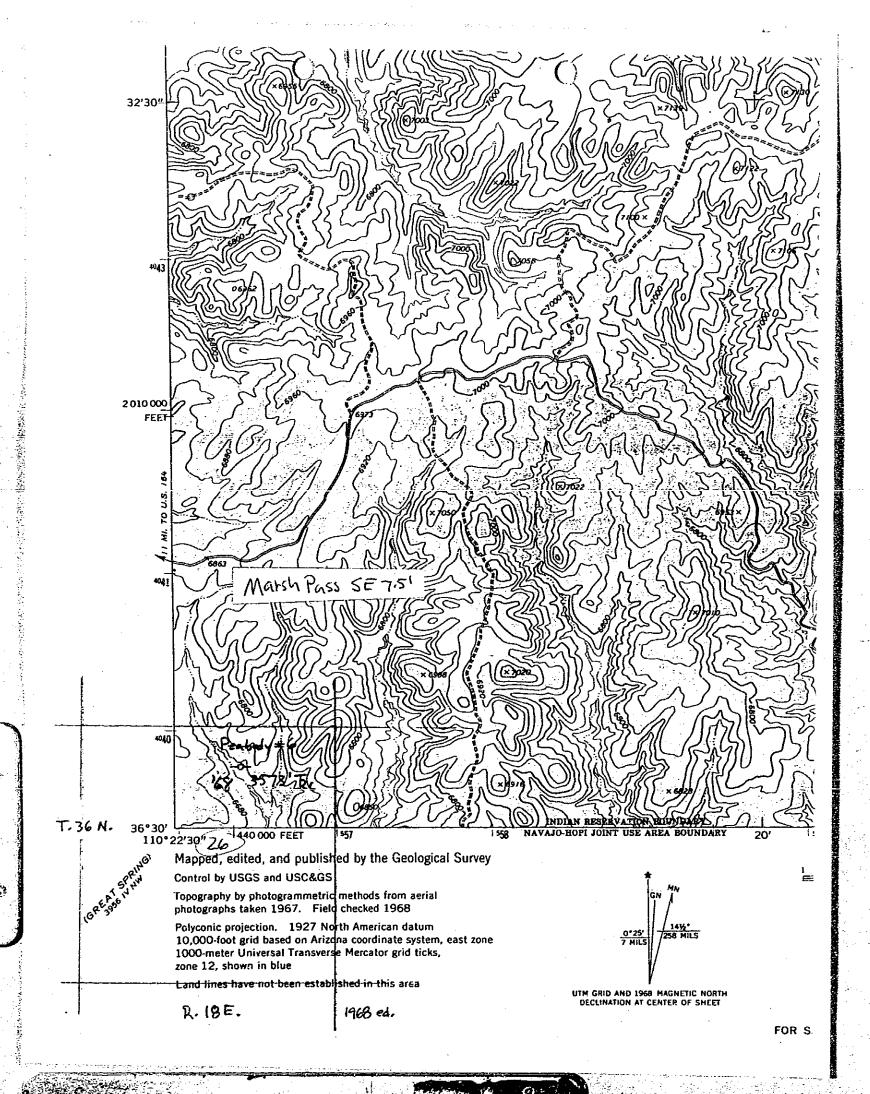
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OFFICE OF

Gil and Gas Conservation Commission

Phoenix, Arizona 85007

PHONE: 271-5161

October 8, 1969

Gentlemen:

There has been some misunderstanding expressed concerning my letter to you of September 24, 1969 referring to the wells drilled in the Black Mesa area of Navajo County, Arizona, by Peabody Coal Company.

This information was released for you should you wish to publish same.

John Mouncale

John Bannister

Executive Secretary

Yours truly,

Western Oil Reporter
Oil & Gas Journal
P.I.
Utah Oil Report
Munger Oilogram
SW Oil & Gas Hews
Ariz Natrl Resource Serv

September 29, 1969

Mr. Guido Zecca Gallup Blueprint & Engineering Corp. 303 South 2nd Street Gallup, New Mexico 87301

Dear Mr. Zecca:

The Arizona Uil and Gas Conservation Commission is releasing all logs and related information concerning six deep water wells drilled by Peabody Coal Company at Black Mesa, Arizona, on the Navajo Reservation.

Under separate cover we are sending you the sepias of the well logs, and a location plat, on a loan basis.

Our release to industry states that interested individuals may obtain a copy of this material from Gallup Blueprint and Engineering Corporation, 303 South 2nd Street, Gallup, New Mexico, Telephone No. (505) 263-9396.

It is our understanding that you have complete responsibility for the handling and sale of this material, and are prepared to render prompt service.

Very truly yours,

John Bannister Executive Secretary

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September 24, 1969

Mr. Paul Lewis Pan American Dil Co. 501 Airport Drive Farmington, New Mexico 87401

Dear Paul:

I attempted to call you earlier today and failed to get through. I would appreciate it if you would release the attached information at your next scout check.

The Commission does have logs on the wells and, as you noted, we made arrangements for the commercial purchase of this information.

Hope to see you soon.

Sincerely,

John Bannister Executive Secretary

/vb

Enc.

OFFICE OF

Gil and Cas Conservation Commission

STATE OF ARIZONA
ROOM 202
1624 WEST ADAMS
Phornix, Arizona 85007
PHONE: 271-5161

September 24, 1969

Gentlemen:

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TO THE REAL PROPERTY.

The Arizona Oil and Gas Conservation Commission has released all available information concerning six deep water wells drilled since 1965 in the Black Mesa area, Navajo County, Arizona, on the Navajo Reservation, by Peabody Coal Company.

Shows of oil and gas were encountered in the Dakota during the drilling of one well which had 43 feet of indicated log porosity. A heavy oil scum covered the mud pits, and gas bubbles were visible in the flow line. No shows were reported in the other five wells. All of the wells exhibit considerable structural deformation, and all penetrated the Coconino formation.

A packet of information containing logs and a location plat is available from Gallup Blueprint & Engineering Corp., 303 South 2nd St., Gallup, New Mexico 87301, Telephone No. (505) 863-9396.

Yours truly,

John Bannister Executive Secretary

/vb

SAMPLE

Mr. Guido Zecca Gallup Blueprint & Engineering Corp. 303 South 2nd Street Gallup, New Mexico 87301

Dear Mr. Zecca:

The Arizona Oil and Gas Conservation Commission is releasing all logs and related information concerning six deep water wells drilled by Peabody Coal Company at Black Mesa, Arizona, on the Navajo Reservation.

Under separate cover we are sending you the sepias of the well logs, and a location plat, on a loan basis.

Our release to industry states that interested individuals may obtain a copy of this material from Gallup Blueprint and Engineering Corp., 303 South 2nd Street, Gallup, New Mexico, Telephone No. (505) 863-9396.

It is our understanding that you have complete responsibility for the handling and sale of this material, and are prepared to render prompt service.

Very truly yours,

John Bannister

MINERALS DEPARTMENT

September 22, 1969

Mr. Guido Zecca
Gallup Blueprint & Engineering Corp.
303 South 2nd Street
Gallup, New Mexico 87301

Dear Mr. Zecca:

6 Participal Control

Delivered herwith are sepias of six wells drilled by Peabody Coal Co., at Black Mesa, in Navajo County, Arizona.

This material has been released by Peabody Coal Co., through the Arizona Oil and Gas Conservation Commission, of Phoenix, Arizona. They are preparing a letter of verification to you.

Interested operators may contact you for copies of this material. This office is not interested whatever in the selling or handling of copies purchased by interested persons, operators, companies, etc.

The following sepias have been loaned to you this date:

Well #1	6 sepias
Well #2	1 sepia
Well #3	l sepia
Well #4	l sepia
Well #5	l sepia
Well #6	l sepia
TOTAL	11 sepias

Very truly yours,

/S/ PERRY K. HURLBUT

Perry K. Hurlbut Minerals Supervisor

Attachments cc: Chrono File PKH: bjm: 9/22/69

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Marie C

Memo to Mr. Bannister

September 22, 1969

Memo from J. Lambert

P. K. Hurlbut called today. He is mailing material on the #1 well. Same cover he is furnishing you a letter for the public release for P. I. and many others. He requests that you release the letter as nearly as he has written it as possible. He says that he has labored hard over the text of this letter and hopes that you will see fit to let it go as is. He also has included a letter that he would like for you to send to blue print company at Gallup. He has no druthers on this particular letter.

He has furnished them sepias of the logs on the #1, 2, 3, 4, 5, and 6 wells on a loan basis and apparently this letter is just the Commission's verification of this situation.

He would like for you to release these letters Wednesday if you have the time and inclination. He will talk to you on Monday the 29th or Tuesday the 30th.

95

9-16-69 Letter und fallow. Just stick These until I git the rest of the facts to your. about

TILE NAVAJO TRIBE
WINDOW ROCK, ARIZONA
MINERALS DEPARTMENT

RAYMOND NAKAI CHAIRMAN, Navajo Tribal Council

NELSON DAMON
VICE CHAIRMAN, Navajo Tribal Council

September 22, 1969

Mr. John Bannister Arizona Oil and Gas Conservation Commission 1624 West Adams, Room 202 Phoenix, Arizona 85007

Dear John:

The following is a suggested release to P.I. and other agencies concerning the Peabody water wells at Black Mesa:

OIL AND GAS SHOWS REPORTED

The Arizona Cil and Gas Conservation Commission has released all information concerning six deep water wells drilled since 1965 in the Black Mesa area, Navajo County, Arizona, on the Navajo Reservation, by Penbody Col.

Shows of oil and gas were encountered in the Dakota during the drilling of one well which had 43 feet of indicated log porosity. A heavy oil scum covered the mud pits, and gas bubbles were visible in the flow line. No shows were reported in the other five wells. All of the wells exhibit considerable structural deformation, and all penetrated the Coconino formation.

A packet of information containing logs and a location plat is available from Gallup Blueprint & Engineering Corp., 303 South 2nd St., Gallup, New Mexico 87301. Telephone No. (505) 863-9396.

We have this date loaned the sepias of these logs, and a location plat, to Gallup Blueprint. The packet of material they will supply includes one copy each of all logs and the location plat.

We certainly appreciate your assistance in this matter.

Sincerely,

Perry K. Hurlbut Minerals Supervisor





THE NAVAJO TRIBE
WINDOW ROCK, ARIZONA
MINERALS DEPARTMENT

RAYMOND NAKAI CHAIRMAN, Navajo Tribal Council

NELSON DAMON VICE CHAIRMAN, Navajo Tribal Council



August 8, 1969

Mr. James Scurlock Arizona Oil and Gas Conservation Commission 1624 West Adams, Room 202 Phoenix, Arizona 85007

Dear Mr. Scurlock:

The correct log top for the Pdc in the Peabody #1 water well at Black Mesa is 4963. Measured from the KB of 6403, this results in a datum of + 1440.

The other five wells did not penetrate the Pdc. However, if you are interested I can give you the Kd datums.

Sincerely yours,

Perry K. Hurlbut Minerals Supervisor



O2, SESE 3, SWNW 14-35N-18E NE NW 16-35N-18E NE SW 34-36N-18E 6. C.NiNi Z6-36N-18E Elev: 6403.KB 6. 6686 KB 6552 KB

T,D.

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